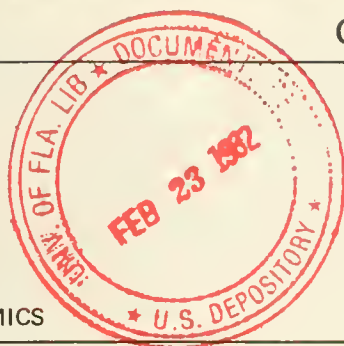




U.S. Department of Commerce
BUREAU OF THE CENSUS
BUREAU OF INDUSTRIAL ECONOMICS



CURRENT INDUSTRIAL REPORTS

Copper Controlled Materials

SECOND QUARTER 1981 AND SUMMARY FOR 1980

ITA-9008-(81)-2
Issued November 1981

The statistics in this publication are based on a survey of all known producers of brass mill products and copper-based powder products and a 95 percent sample of producers of wire mill products. The figures represent total U.S. shipments of copper-base mill and foundry products. A description of the survey methodology and related information appears on page 6.

This report includes figures for the first and second quarters of 1981, and summary data for 1980. Total shipments of copper-base mill and foundry products amounted to 5.8 billion pounds

in 1980, a 14 percent decrease from the 1979 level of 6.7 billion pounds. Copper wire mill shipments, at 2.8 billion pounds, were down 9 percent from 1979. Within this group, bare wire increased 21 percent; insulated communication wire decreased 6 percent; and other insulated wire decreased 14 percent.

A description of the survey methodology and related information may be found in the first quarter 1981 report for this series, ITA-9008(81)-1, issued July 1981.

Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds - metal weight)

Quarter and year	Total	Brass mill products		Copper wire mill products ¹			Brass and bronze foundry products ³	Copper-base powder mill product
		Alloyed	Unalloyed	Bare wire ²	Insulated communication wire	Other insulated wire		
1981								
Second quarter.....	1,592	490	265	81	185	433	125	13
First quarter.....	1,591	446	264	82	196	470	121	12
1980								
1980, total.....	5,786	1,508	959	293	797	1,693	489	47
Fourth quarter.....	1,361	372	239	67	154	401	115	13
Third quarter.....	1,342	320	212	61	221	412	108	8
Second quarter.....	1,398	355	232	79	203	398	120	11
First quarter.....	1,659	440	276	86	219	482	141	15
1979, total.....	6,707	1,869	1,107	236	846	1,966	617	66
1978, total.....	6,266	1,750	962	238	806	1,867	580	63

Note: Detail may not add to totals due to independent rounding.

^r Revised by 5 percent or more from previously published figures.

¹ Represents copper content weight, rather than metal weight.

² Represents uninsulated, bare tinned, and/or alloy coated wire.

³ Source: Bureau of the Census Current Industrial Reports Series M33E, Nonferrous Castings.

Address inquiries concerning these figures to the U.S. Department of Commerce, Bureau of Industrial Economics, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Robert Marske, (301) 763-2528.

For sale by Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 25 cents per copy, \$1.25 per year.

Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds - metal weight)

Product	1981		1980
	Second quarter	First quarter	Fourth quarter
Total shipments.....	1,592	^r 1,591	1,361
Copper-base mill products.....	755	^r 710	611
Copper-base alloy:			
Sheet and strip ¹	228	204	174
Rod, bar, and wire.....	224	204	168
Tube and pipe.....	38	38	30
Unalloyed copper:			
Sheet and strip.....	58	^r 60	^r 43
Rod, bar, and wire ²	40	^r 31	^r 30
Tube and pipe.....	167	173	166
Copper wire mill products ³	699	^r 748	622
Bare wire ⁴	81	^r 82	67
Insulated communication wire.....	185	196	154
Other insulated wire.....	433	^r 470	401
Brass and bronze foundry products ⁵	125	121	115
Copper-base powder mill products.....	13	12	13
Copper-base alloy:			
Granular.....	2	1	2
Flake.....	(Z)	(Z)	(Z)
Unalloyed copper:			
Granular.....	10	10	10
Flake.....	1	1	1

Note: Detail may not add to totals due to independent rounding. Monthly shipments data for brass mills and copper wire mills of primary companies are available in Current Industrial Reports Series M33K, Inventories of Brass and Copper Wire Mill Shapes.

^rRevised by 5 percent or more from previously published figures. (Z) Less than 500,000 pounds.

¹Military ammunition cups and discs are included on net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing.

²Does not include electrical wire.

³Represents copper content weight, rather than metal weight.

⁴Represents uninsulated, bare, tinned, and/or alloy coated wire.

⁵Source: Bureau of the Census Current Industrial Reports Series M33E, Nonferrous Castings.

Table 3. COPPER-BASE MILL PRODUCTS, SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION: 1981

(Quantity in millions of pounds; value in \$1,000)

Product ¹	Manufac- turers' shipments	Exports of domestic merchandise ^{1 2}		Estimated producer's value ³	Percent, exports to manufac- turers' shipments (quantity)	Imports for consumption ^{1 4}		Apparent consump- tion ⁵ (quantity)	Percent, imports to apparent consump- tion (quantity)
		Quantity	Value at port			Quantity	Value ⁵		
SECOND QUARTER 1981									
Copper-base mill products ⁷	849	28	69,199	67,377	3	91	113,094	912	10
Brass mill products:									
Copper-base alloy:									
Sheet and strip.....	228	5	13,849	13,476	2	57	56,902	502	11
Rod, bar, and wire.....	224	2	5,129	4,991	1				
Tube and pipe.....	38	6	17,929	17,447	16				
Unalloyed copper:									
Sheet and strip.....	58	(Z)	970	944	(Z)	7	16,284	98	7
Rod, bar, and wire.....	40	7	8,681	8,447	18				
Tube and pipe.....	167	4	9,355	9,103	2				
Copper wire mill products, bare wire.....	181	3	11,773	11,456	4	5	6,228	83	6
Copper-base powder mill products:									
Copper-base alloy:									
Granular.....	2	1	1,513	1,513	8	1	1,473	13	8
Flake.....	(Z)								
Unalloyed copper:									
Granular.....	10								
Flake.....	1								
FIRST QUARTER 1981									
Copper-based mill products ⁷	804	54	78,495	76,411	7	67	87,147	817	8
Brass mill products:									
Copper-base alloy:									
Sheet and strip.....	204	14	23,099	22,478	7	33	36,728	422	8
Rod, bar, and wire.....	204	5	6,556	6,380	2				
Tube and pipe.....	38	4	9,280	9,030	11				
Unalloyed copper:									
Sheet and strip.....	60	2	2,821	2,745	3	12	15,364	84	14
Rod, bar, and wire.....	31	17	14,771	14,374	55				
Tube and pipe.....	173	7	10,571	10,287	4				
Copper wire mill products, bare wire.....	182	4	10,424	10,144	5	4	6,587	82	5
Copper-base powder mill products:									
Copper-base alloy:									
Granular.....	1	1	973	973	8	1	1,419	12	8
Flake.....	(Z)								
Unalloyed copper:									
Granular.....	10								
Flake.....	1								

¹ Revised by 5 percent or more from previously published figures. (Z) Less than half the stated unit of measure.^{1A} A comparison of domestic manufacturers' shipments, export, and import codes for copper-base mill products appears in table 6.² Source: Bureau of the Census Report FT-410, U.S. Exports--Schedule E--Commodity by Country.³ These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods, current adjustment factors (.973) for industry group 335 relating to brass mill and copper wire mill products and 1.000 for industry group 339 relating to copper-base powder mill products) are based on data for 1977 which are published in Origin of Exports of Manufactured Products, MC77-SR-12, appendix B.⁴ Source: Bureau of the Census Report IM 145-X, U.S. Imports for Consumption and General Imports.⁵ Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁶ Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.⁷ This total does not include either insulated wire and cable products or brass bronze foundry products.

Table 4. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1980 AND 1979

(Millions of pounds--metal weight)

Type of product	Total	First quarter	Second quarter	Third quarter	Fourth quarter
1980					
Total.....	5,786	1,673	1,411	1,341	1,361
Brass mill products ¹	2,467	725	594	537	611
Copper-base alloy:					
Sheet and strip ²	680	204	169	133	174
Rod, bar, and wire.....	708	211	164	165	168
Tube and pipe.....	120	34	29	27	30
Unalloyed copper:					
Sheet and strip.....	202	62	53	44	^r 43
Rod, bar, and wire ³	126	31	37	28	^r 30
Tube and pipe.....	631	183	142	140	166
Copper wire mill products ^{1 4}	2,783	787	680	694	622
Bare wire ⁵	293	86	79	61	67
Insulated communication wire.....	797	219	203	221	154
Other insulated wire.....	1,693	482	398	412	401
Brass and bronze foundry products ^{6 7}	489	146	126	102	115
Copper-base powder mill products ¹	47	15	11	8	13
Copper-base alloy:					
Granular.....	9	3	2	2	2
Flake.....	1	1	(Z)	(Z)	(Z)
Unalloyed copper:					
Granular.....	33	10	8	5	10
Flake.....	4	1	1	1	1
1979					
Total.....	6,707	1,784	1,752	1,556	1,615
Brass mill products ¹	2,976	825	809	691	651
Copper-base alloy:					
Sheet and strip ²	831	240	232	^r 181	178
Rod, bar, and wire.....	885	254	240	211	180
Tube and pipe.....	153	44	42	^r 33	34
Unalloyed copper:					
Sheet and strip.....	^r 243	65	69	53	^r 56
Rod, bar, and wire ³	104	28	27	25	24
Tube and pipe.....	760	194	199	188	179
Copper wire mill products ^{1 4}	3,048	784	764	702	798
Bare wire ⁵	236	62	67	48	59
Insulated communication wire.....	846	208	229	216	193
Other insulated wire.....	1,966	514	468	438	546
Brass and bronze foundry products ^{6 7}	617	155	162	148	152
Copper-base powder mill products ¹	66	20	17	15	14
Copper-base alloy:					
Granular.....	15	4	4	3	4
Flake.....	3	1	1	1	(Z)
Unalloyed copper:					
Granular.....	47	14	12	11	10
Flake.....	1	(Z)	(Z)	(Z)	(Z)

Note: Detail may not add to totals due to independent rounding. Monthly shipments data for brass mills and for copper wire mills of primary companies are available in Current Industrial Reports Series M33K, Inventories of Brass and Copper Wire Mill Shapes.

^r Revised by 5 percent or more from previously published figures. (Z) Less than 500,000 pounds.

¹Shipments by brass mills, copper wire mills and copper-base powder mills include all controlled materials orders shipped: by the respondent for his own account; by other copper controlled material producers for the respondent's account; or by the responding company under toll arrangements for the account of controlled materials consumers.

²Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing operation.

³Does not include electrical wire.

⁴Reported in copper content weight rather than metal weight.

⁵Wire, uninsulated, bare, tinned, and/or alloy coated.

⁶Shipments by brass and bronze foundries include both shipments for sale (to the trade) and shipments for own use. Shipments for own use represent copper and copper-base alloy castings for use by the reporting company or an affiliate, subsidiary, or parent company. Also includes castings produced and consumed at the same location in the production of finished products.

⁷Source: Bureau of the Census, Current Industrial Reports Series M33E, Nonferrous Castings.

Table 5. COPPER-BASE MILL AND FOUNDRY PRODUCTS, SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION: 1980 AND 1979

(Quantity in millions of pounds; value in \$1,000)

Product ¹	Manufac- turers' shipments	Exports of domestic merchandise ^{1 2}			Percent, exports to manufac- turers' shipments (quantity)	Imports for consumption ^{1 4}		Apparent consump- tion ⁶	Percent, exports to apparent consump- tion (quantity)
		Quantity	Value at port	Estimated producers' value ³		Quantity	Value ⁵		
1980									
Total ⁷	2,807	221	336,173	327,302	8	220	308,308	2,806	8
Brass mill products:									
Copper-base alloy:									
Sheet and strip.....	680	17	48,707	47,397	2	88	109,767	1,439	6
Rod, bar, and wire.....	708	20	25,866	25,170	3				
Tube and pipe.....	120	31	57,120	55,583	26				
Unalloyed copper:									
Sheet and strip.....	202	4	6,708	6,528	2	47	61,451	281	17
Rod, bar, and wire.....	126	90	94,760	92,211	71				
Tube and pipe.....	631	39	58,284	56,716	6				
Copper wire mill products, bare wire.....	293	16	38,331	37,300	5	16	24,705	293	5
Copper-base powder mill products:									
Copper-base alloy:									
Granular.....	9	4	6,397	6,397	9	2	4,892	45	4
Flake.....	1								
Unalloyed copper:									
Granular.....	33								
Flake.....	4								
1979									
Total ⁷	3,278	147	219,579	213,844	4	333	380,880	3,464	10
Brass mill products:									
Copper-base alloy:									
Sheet and strip.....	831	10	39,210	38,155	1	145	140,384	1,836	8
Rod, bar, and wire.....	885	15	19,830	19,296	2				
Tube and pipe.....	153	33	47,868	46,580	21				
Unalloyed copper:									
Sheet and strip.....	243	1	2,342	2,279	(Z)	62	68,955	365	17
Rod, bar, and wire.....	104	43	40,462	39,373	41				
Tube and pipe.....	760	19	25,480	24,795	2				
Copper wire mill products, bare wire.....	236	22	37,955	36,934	9	25	29,860	239	10
Copper-base powder mill products:									
Copper-base alloy:									
Granular.....	15	4	6,432	6,432	6	2	5,021	64	3
Flake.....	3								
Unalloyed copper:									
Granular.....	47								
Flake.....	1								

¹ Revised by 5 percent or more from previously published figures. (Z) Less than half the stated unit of measure.² Comparison of domestic manufacturers' shipment, export, and import codes for copper-base mill and foundry products is shown in table 6.³ Source: Bureau of the Census Report FT-410, U.S. Exports, Commodity by Country.⁴ These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors (.9731 for industry group 335 relating to brass mill and copper wire mill products and 1.0 for industry group 339 relating to copper-base powder mill products) are based on data for 1977 which are published in Origin of Exports of Manufactured Products, MC77-SR-12, appendix B.⁵ Source: Bureau of the Census Report LM 145-X, U.S. Imports for Consumption and General Imports.⁶ Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.⁷ Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.⁸ This total does not include either insulated wire and cable or brass and bronze foundry products.

Table 6. COMPARISON OF DOMESTIC MANUFACTURERS' SHIPMENTS, EXPORT, AND IMPORT CODES FOR COPPER-BASE MILL PRODUCTS: 1981

Manufacturers' product descriptions (Import/Export descriptions)	Exports of domestic merchandise (Schedule B)	Imports for consumption (TSUSA)
Copper mill products:		
Copper-base alloy:		
Sheet, strip, and plate (flat).....	612.3360, 612.3370, 612.3380	612.3400, 612.3500, 612.3600, 612.3800, 612.3920, 612.3940,
Rod, bar, and wire (non-flat) ¹	612.4620	612.3960, 612.3980, 612.4000, 612.4100, 612.4300, 612.4410,
Tube and pipe.....	613.0520, 613.0530	612.4430, 612.4510, 612.4520, 612.5200, 612.6100, 612.6200,
		612.6300, 612.6410, 612.6420, 612.8100, 612.8200
		613.0600, 613.0800, 613.1000, 613.1100, 613.1200
Unalloyed copper:		
Sheet, strip, and plate (flat).....	612.3320	612.3000, 612.3120, 612.3140, 612.3160, 612.3200,
Rod, bar, and wire (non-flat) ¹	612.4640	612.5000, 612.6000, 612.8000
Tube and pipe.....	613.0540, 613.0550	613.0200, 613.0300, 613.0400
Copper wire mill products, bare wire.....	612.7420, 612.7440	612.7000, 612.7100, 612.7220, 612.7240, 612.7260, 612.7300
Copper base powder mill products:		
Copper-base alloy:		
Granular.....	612.5400	612.5500, 612.5600
Flake.....		
Unalloyed copper:		
Granular.....		
Flake.....		

¹The import and export codes for this line do not include wire.

DESCRIPTION OF SURVEY

Scope of Survey—This survey includes firms engaged in manufacturing copper-base mill products.

Sampling Description—The statistics in this publication were collected on Bureau of Industrial Economics Form ITA-9008, Copper Controlled Materials. The mailing panel for these surveys includes all known producers of brass mill products and copper-base powder products, as well as those manufacturers who produced 95 percent of wire mill products. The data for wire mill products are inflated to represent 100 percent coverage. There are 188 companies reporting on this survey.

Survey Error—The quarterly figures include estimates for respondents whose reports were not received in time for tabulation, as well as those establishments not included in the mailing panel. Such missing figures are "imputed" from prior reports and/or estimates and are generally limited to a maximum of 10 percent for any one item. Individual items with imputation greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures. The probable range of difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous quarters may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Seasonal Adjustment—The data are not adjusted for seasonal variation.

EXPLANATION OF TERMS

Shipments—Shipments by brass and bronze foundries include both shipments for sale (to the trade) and shipments for own use. Shipments for own use represent copper and copper-base alloy castings for use by the reporting company or an affiliate, subsidiary, or parent company, and also include castings produced and consumed at the sale location in the production of finished products.

Shipments by brass mills, copper wire mills, and copper-base powder mills include all controlled materials orders shipped: by the respondent for his own account, by other copper-controlled materials producers for the respondent's account, or by the responding company under toll arrangements for the account of controlled materials consumers.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import com-

modity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data:

a. *Valuation*—There are different methods of valuation for the three types of data.

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

b. *Duplication in Quantity and Value of Output*—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

c. *Low-Valued Export and Import Transactions*—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$501, effective March 1979 and for shipments under \$251 prior to March 1979. This is believed to have only negligible effect on the statistics for most commodities.

d. *Manufacturers' Shipments, Not Specified by Kind*—The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

e. *Time Lag Between Output and Exports*—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

f. *"Direct" vs "Total" Commodity Exports and Imports*—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

g. *Used Commodities*—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

h. *Geographic Area of Coverage*—Import and export data reflect the movement of merchandise into and out of the U.S. customs territory (the 50 States, the District of Columbia, and Puerto Rico). They do not include movements between the United States and its possessions. Domestic output (shipments) data exclude Puerto Rico and other outlying areas.

RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report summarizes quarterly figures and incorporates all revisions in the series for both the current and the previous year, thus providing a single reference copy to replace the quarterly publications.

The Bureau of the Census also publishes reports on related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M33E	Monthly	<i>Nonferrous Castings</i>
M33K	Monthly	<i>Inventories of Brass and Copper Wire Mill Shapes</i>
MA-33L	Annually	<i>Insulated Wire and Cable</i>
M3-1	Monthly	<i>Manufacturers' Shipments, Inventories, and Orders</i>
<i>Foreign Trade Reports</i>		
FT-410	Monthly	<i>U.S. Exports--Schedule E--Commodity by Country</i>
IM 145-X	Monthly	<i>U.S. Imports for Consumption and General Imports</i>

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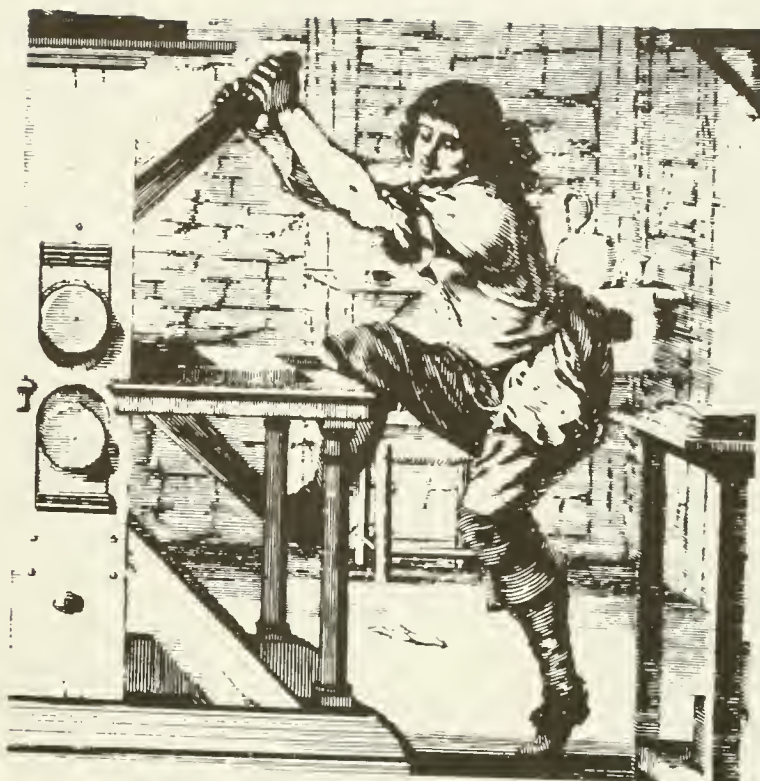
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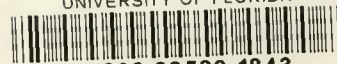
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